

WHAT IS CLAIMED IS:

1. A self-lubricating bearing comprising:

a main body and a plurality of solid lubricant pieces, said main body having an inner annular wall surface formed around a central axis thereof and an outer annular wall surface, the inner annular wall surface provided with an inner oil groove disposed thereon, the outer annular wall surface provided with an outer oil groove disposed thereon, at least one oil hole penetrating through and communicating with said inner oil groove and said outer oil groove, a through hole surrounded and defined by said inner annular wall surface; and,

characterized by said main body further having a plurality of depressions distributed on the inner annular wall surface without penetrating through said outer annular wall surface; said plurality of solid lubricant pieces capable of being respectively embedded into said plurality of depressions and each provided with a radial inside annular surface in a curve conforming to that of said inner annular wall surface.

2. A method of manufacturing a self-lubricating bearing in the present invention, comprising the steps of:

a first step of forming a main body having an inner annular wall surface and an outer annular wall surface, said inner annular wall surface provided with an inner oil groove disposed thereon, the outer annular wall surface provided with an outer oil groove disposed thereon, at least one oil hole penetrating through and communicating with the inner oil groove and said outer oil groove;

a second step of forming a plurality of depressions on said inner annular wall surface of said main body without penetrating through said outer annular wall surface of said main body;

a third step of coating said inner annular wall surface of said main body with a liquid lubricant in a coating manner to make said liquid lubricant that respectively filled up in said plurality of depressions of said inner annular wall surface become a plurality of solid lubricant pieces after
5 getting dry;

a fourth step of heating said main body coated with said liquid lubricant to make said plurality of solid lubricant pieces securely fixed in said plurality of depressions of said inner annular wall surface; and,

a fifth step of grinding said inner annular wall surface of said main
10 body to make radial inside annular surfaces of said embedded solid lubricant pieces in a curve conforming to that of said inner annular wall surface of said main body of said main body.

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